UNION FENCE COMPANY

UNION

Catalogue No. 7

DE KALB, ILLINOIS

UNION FENCE COMPANY

. . SALES OFFICES . .

DE KALB, ILL. NEW YORK, 114 Liberty St.

SAN FRANCISCO, CAL. KANSAS CITY, MO., 1115 Grand Ave.

. . . WORKS . . .

DE KALB, ILL. NEW HAVEN, CONN. OAKLAND, CAL.

CABLE ADDRESS:

"UNFENCO,"
CHICAGO

CODES USED:

A B C, 4TH EDITION,
WESTERN UNION AND
LIEBER'S

UNION FENCE COMPANY

MANUFACTURERS OF

Union Lock Field and Hog Fence,

Union Lock Poultry Fence,

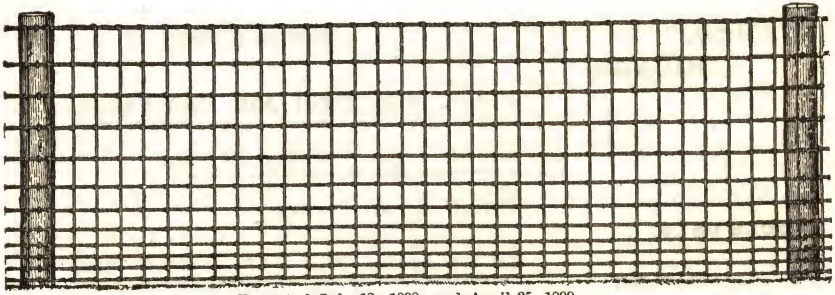
Union Lawn Fence,

Union Gates and Fence Stretchers,

Union Barb Wire—216 pounds to the mile,

National Barb Wire.

UNION LOCK FIELD, HOG AND SHEEP FENCE.



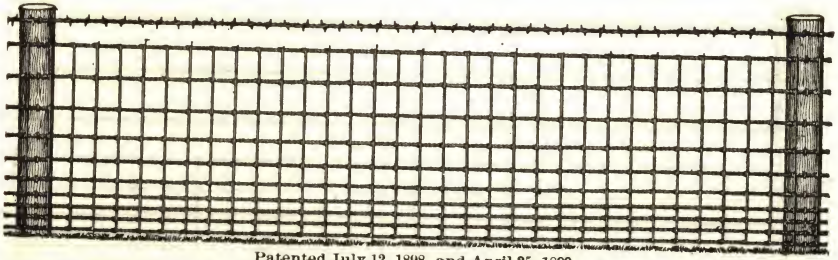
Patented July 12, 1898, and April 25, 1899

THIS cut shows the 63-inch, 12-cable fence with pickets 6 inches apart. It is made with or without barbs on the bottom cable. Spacing between cables—3, 3, 3, 4, 5, 6, 7, 8, 8, 8 and 8 inches.

The best of No. 14 galvanized steel wire obtainable is used in the manufacture of this fencing and enough of it to give durability and at the same time insure sufficient strength to turn all stock that may come in contact with it.

Made in 7 heights, as shown on page 6.

UNION LOCK FIELD, HOG AND SHEEP FENCE.



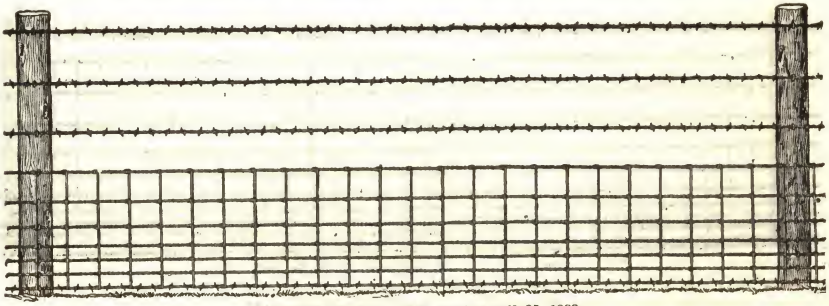
Patented July 12, 1898, and April 25, 1899.

THE above cut represents the 47-inch, 10 cable fence with one strand of Union Barb Wire above, making an ideal farm fence.

Each horizontal strand is a coiled cable and the connection between cable and pickets is such as to make them inseparable yet allows the fencing to adjust itself perfectly to hilly or undulating ground without buckling. The breaking strength of this fencing is more than 10,000 lbs.

For heights and list prices, see page 6.

UNION LOCK FIELD, HOG AND SHEEP FENCE.

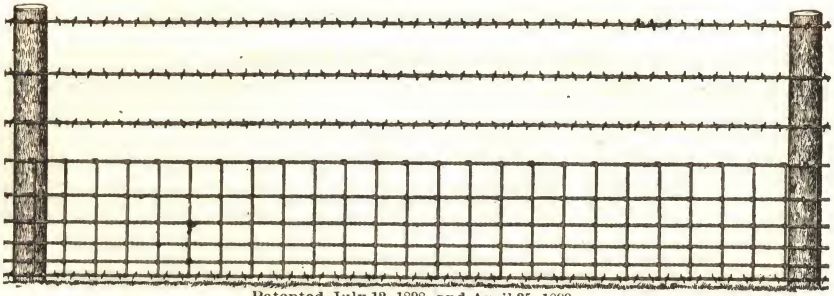


Patented July 12, 1898, and April 25, 1899.

THE above cut represents the 24-inch, 7-cable barbed hog fence with three strands of Union Barb Wire above. This is our most popular hog fence, and when erected as shown it makes an excellent, all-around farm fence. It is flexible, easily erected, and the coiled cable provides perfectly for contraction and expansion caused by changes in temperature.

List prices on page 6.

UNION LOCK MODEL FIELD, HOG AND SHEEP FENCE.



Patented July 12, 1898, and April 25, 1899.

THE above cut represents the 24-inch, 6-cable Model Barbed Hog Fence with three strands of Union Barb Wire above.

The 24-inch fence is made both with and without barbs on bottom cable. We also make a 32-inch height in the Model fence with 7 cables, but only without barbs.

All that distinguishes the Model fence is the number of cables and the spacing, which is 3, 3⅛, 4½, 5½ and 6½ inches. It is a good serviceable fence at a low cost.

For list prices see page 6.

UNION LOCK FIELD, HOG AND SHEEP FENCE.

Made only in the close mesh, with the pickets 6 inches apart.

List Prices—Subject to Discount.

Without Barbs on Bottom Cable.

			PER ROD.	CODE WORD.
18 inches high,	6 cables		$0.45	Rhodensium
24 "	7 "		.55	Rhodiacos
31 "	8 "		.65	Rhodiacum
39 "	9 "		.75	Rhodiense
47 "	10 "		.85	Rhodinorum
55 "	11 "		.95	Rhodiola
63 "	12 "		1.05	Rhodioles

With Barbs on Bottom Cable.

			PER ROD.	CODE WORD.
18 inches high,	6 cables		$0.47	Rhodolenes
24 "	7 "		.57	Rhoditidem
31 "	8 "		.67	Rhoditidis
39 "	9 "		.77	Rhodium
47 "	10 "		.87	Rhodoceres
55 "	11 "		.97	Rhodogune
63 "	12 "		1.07	Rhodoleia

UNION LOCK MODEL FIELD, HOG AND SHEEP FENCE.

Without Barbs on Bottom Cable.

			PER ROD.	CODE WORD.
24 inches high,	6 cables		$0.48	Riabbarba
32 "	7 "		.58	Riabitammo

With Barbs on Bottom Cable.

			PER ROD.	CODE WORD.
24 inches high,	6 cables		$0.50	Riabitando
32 "	7 "	*not made with barbs.*		

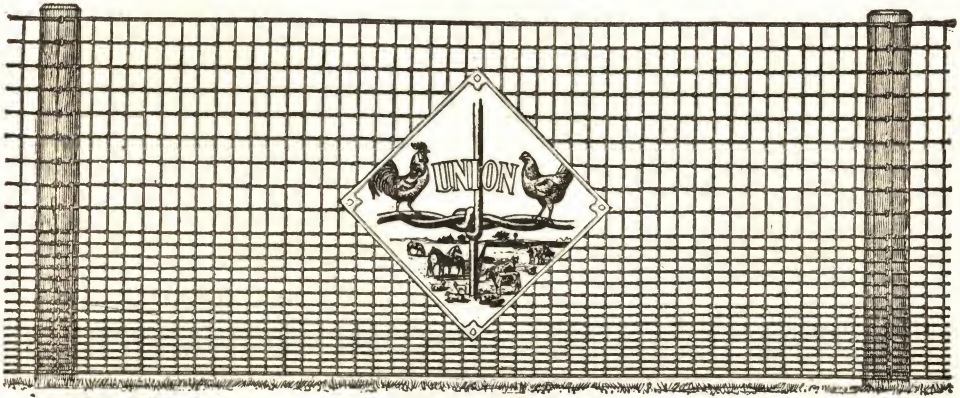
Put up in rolls of 20 rods each. Special lengths made to order. In ordering always state height, whether with barbs or without barbs, and list price, or give code word.

In ordering the 24-inch height be careful to give number of cables.

Directions for erecting on pages 13, 14 and 15.

UNION LOCK POULTRY FENCE.

FOR POULTRY, RABBITS, ORCHARDS AND GARDENS.



PAT JULY 12, 1898 TRADE MARK REGISTERED PAT. APRIL 25, 1899

Every roll of **Genuine Union Lock Fencing** will contain the above trade mark in colors.

UNION LOCK POULTRY FENCE.

THE horizontal lines of this fence are all composed of two No. 20 galvanized steel wires coiled together. Beginning at the bottom the first seven cables are 1¼ inches apart, the next three cables are 1½ inches apart, then six cables 2 inches apart and all above that 4 inches apart. This gives a mesh of 1¼x3 inches at the bottom where it is needed for small chicks, and above 2 feet, where fowls can only reach when on the wing, the mesh is 3x4 inches. The pickets are No. 19 galvanized steel wires and are 3 inches apart. The picket is fastened to the cables with the Union Lock, the same as we use in our Field and Hog Fencing, which has given such excellent satisfaction.

On account of the picket being at right angles to the cables, this fence will fit any unevenness of the ground without cutting, which is an advantage not possessed by any diamond mesh netting or diagonal mesh fencing.

As all of the cables are of the same length and run the whole length of the fabric, every part can be stretched perfectly. The fence is amply strong, as the breaking strain of a No. 20 two-wire cable is 192 pounds and there are ten cables in the first foot of fence. Because of its strength and construction this fence requires no top or bottom rail and no more posts than the ordinary woven wire stock fence, or about one-half the number needed for poultry netting.

In strength, closeness of mesh, adjustability and economy, it excels all others.

UNION LOCK POULTRY FENCE.

This cut shows the exact size of the mesh at the bottom of the fence, also the exact size of the wire used.

LIST PRICES—Subject to Discount.

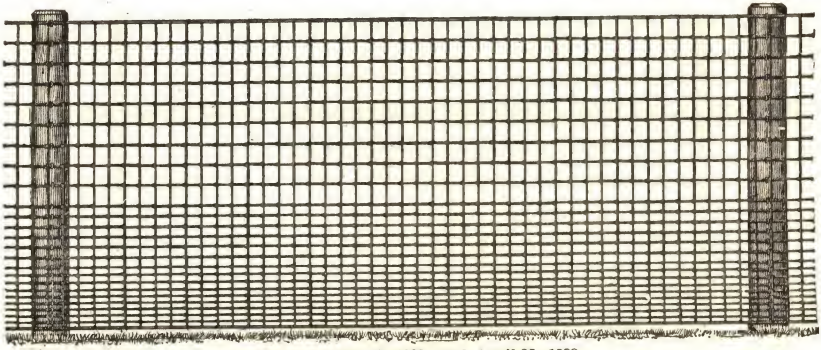
12 inches high	.....	$0.33	per rod.	Code word	Rhuselinis
18 " "	.....	.43	"	"	Rhuselinon
24 " "	.....	.56	"	"	Rhusma
36 " "	.....	.69	"	"	Rhuteni
48 " "	.....	.83	"	"	Rhymeless
60 " "	.....	.96	"	"	Rhymery
72 " "	.....	1.08	"	"	Rhymster
84 " "	.....	1.23	"	"	Rhynchee

Put up in 10 and 20 rod rolls. Always specify size of rolls wanted.

Patented July 12, 1898, and April 25, 1899.

For extra heavy Union Lock Poultry Fence see pages 10 and 11.

EXTRA HEAVY UNION LOCK POULTRY FENCE.



Patented July 12, 1898, and April 25, 1899.

THE first 7 cables are 1¼ inches apart with pickets 4 inches apart, giving a mesh 1¼ inches by 4 inches. Made entirely of No. 17 wire. It is twice as heavy as any ordinary poultry fence. Cannot be excelled for orchards, gardens and general purposes.

EXTRA HEAVY UNION LOCK POULTRY FENCE.

Made of No. 17 galvanized steel wire throughout, is twice as heavy as our lighter Poultry Fence and is intended for orchards, gardens, etc.

The No. 17 two-wire cable has about the same strength as a No. 14 wire and the numerous cables gives this fence a strength equal to our Field and Hog Fence, making it an ideal fence for both Poultry and Stock.

The spacing between the cables is the same as in the lighter fence described on page 8, but the pickets are four inches apart. In service this fence is superior to the No. 14 two-inch netting.

LIST PRICES—Subject to Discount.

	PER ROD.	CODE WORD.		PER ROD.	CODE WORD.
24 inches high, 16 cables	$0.95	Ricangio	60 inches high, 25 cables	$1.74	Ricantasse
36 " " 19 "	1.18	Ricanha	72 " " 28 "	1.97	Ricantata
48 " " 22 "	1.40	Ricanons	84 " " 31 "	2.10	Ricanti

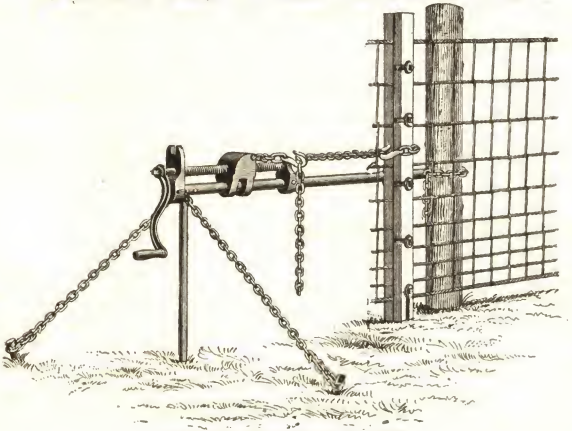
PUT UP IN 10 AND 20 ROD ROLLS.

Always specify size of rolls wanted. In ordering this fence call for No. 17 or give Code Word, as otherwise we will ship the lighter Poultry Fence.

Suggestions for erecting Union Lock Poultry Fencing on page 15.

WIDE FENCE STRETCHER.

TO DO GOOD WORK YOU MUST HAVE GOOD TOOLS.



Patented November 17, 1896.

THIS Stretcher will give perfect satisfaction and will do the work better than any yet offered. It is made entirely of steel and iron, excepting the clamq-bars, which are wood. It does not repuire a post beyond the end fence-post to use it.

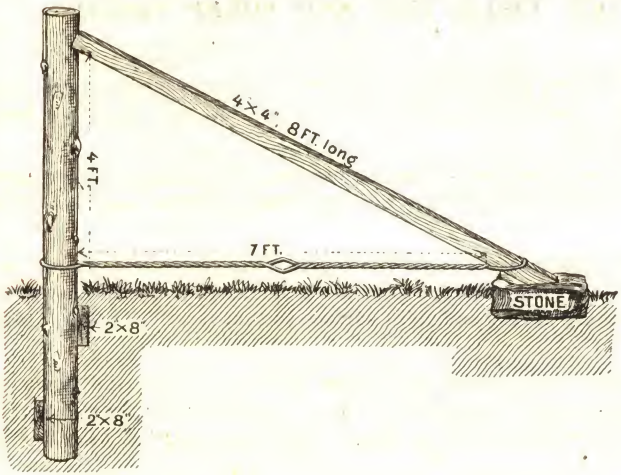
The two stakes at the outer end are used to hold the stretcher from moving sidewise while operating it. The front end is placed against the end-post of the fence, generally about one inch above the center of the fence you expect to stretch.

The cable chain is wrapped about the clamp bars, centerway of the fence, and is caught by the grab-hook in the movable block. If running the block back to the rear bearing does not pull the fence sufficiently tight, drop the loose end of the chain in the slot over the rear bearing, which will hold the fence where you have drawn it, and reverse the crank, running the movable block back to the front end, where you will again use the grab-hook on the same chain, running the block back until the fence is in proper tension.

List price, $10.00, subject to discount.

Code word, SUCUMBIRAN.

BRACING END POSTS FOR UNION LOCK FIELD FENCE.



This cut shows one of the best methods of setting end and corner posts. Notice instructions on following page.

ERECTING UNION LOCK FIELD, HOG AND SHEEP FENCE.

TO secure the best results your Woven Wire Fence must be properly erected. Good posts are essential and those on which the strain comes must be well set, the line posts being placed from sixteen to twenty feet apart.

On preceding page we illustrate an excellent method of bracing the end and corner posts. These posts should be at least seven inches in diameter, well seasoned timber at least 4x4 inches in size being used for the brace.

The upper end of brace is notched into the post near the top and the lower end placed on a stone, block of cement, or if these are not convenient a good-sized block of wood will answer the purpose, the idea being to use something giving sufficient surface so that it will not sink into the ground in wet weather.

For the straining wire No. 7 or No. 8 should be used looped around the post and lower end of wood brace, which is notched so as to prevent slipping of wire. A short stick or iron rod will answer for twisting the straining wire which should be drawn tight and you will have a truss that will stand almost any strain.

STRETCHING THE FENCE.

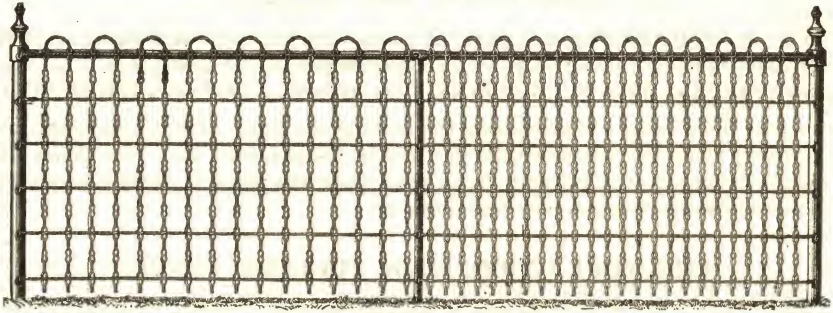
IN stretching, unroll the fencing alongside the posts with the narrow spacing next the posts. Securely fasten fencing to end post, having pickets perpendicular, then place Wide Stretcher in position at other end and there will be no difficulty in stretching 20 or even 40 rods "till it sings."

There is very little danger of stretching the fencing too tight. On the contrary, unless the fencing is properly stretched when erected you will be disappointed with your fence after completed. Take sufficient time to properly build your fence and you will avoid future trouble and will have a piece of work that you may feel proud of.

ERECTING UNION LOCK POULTRY FENCE.

An expensive stretcher is unnecessary in putting up this fencing. The full width of the fencing should be stretched at one time and clamp bars can be arranged quickly by using two 1x4-inch boards as long as the fencing is wide which should be bolted together on the fencing and stretcher attached. A light block and tackle or an ordinary barb wire stretcher will answer admirably for drawing up the light weight fencing. Do not use a rail at either top or bottom as it is not required and only adds to the expense, besides when used at the top it makes a dark object on which the fowls can light.

UNION LAWN FENCE.



Patented Nov. 9, 1886.

Standard Mesh.
Pickets 2¾ in. apart.

Close Mesh.
Pickets 1¾ in. apart.

The above cut represents the 37-inch height of both our Standard and Close Mesh Fences erected on steel posts with steel top rail. Made in five heights, 24, 30, 37, 42 and 50 inches.

Union Lawn Fence has all the neatness, strength and durability of expensive wrought iron fences and the cost is only about one-fourth as great. It is unequaled for lawns, parks, churches and cemeteries, where something heavier and more ornamental than the Field Fencing is required.

UNION LAWN FENCE,

FOR LAWNS, PARKS, CHURCHES, CEMETERIES, ETC.

LIST PRICES—Subject to Discount.

STANDARD FENCE.

Pickets 2⅝ in. apart.

					PRICE.	CODE WORD.
24 in. high,	4	strands,	per lineal	ft....	10c	Riechbarer
30 "	5	"	"	"	12c	Riechdose
37 "	6	"	"	"	14c	Riechhaut
42 "	7	"	"	"	17c	Riechholz
50 "	8	"	"	"	20c	Riechorgan

CLOSE MESH FENCE.

Pickets 1¾ in. apart.

					PRICE.	CODE WORD.
24 in. high,	4	strands,	per lineal	ft....	15c	Riechsalz
30 "	5	"	"	"	18c	Riechstoff
37 "	6	"	"	"	21c	Riechtopf
42 "	7	"	"	"	24c	Riedemmo
50 "	8	"	"	"	27c	Riedendo

Standard Rolls 300 feet. Special lengths made to order.

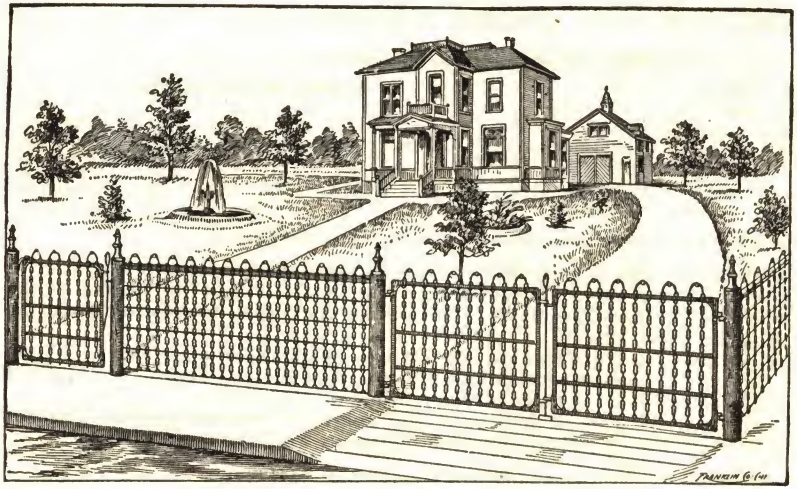
The pickets are made of two No. 12 galvanized steel wires, formed as shown in cut, with two twists between opening in the picket. The spacing between the legs of the pickets in the standard fence is 2⅝ inches and in the close mesh 1¾ inches, in each case measuring from the nearest points and not from their centers.

The cables are made of two No. 14 galvanized steel wires, spaced 6½ inches apart. These are twisted between the legs of the pickets which hold the flat side of the picket in the plane of the fence and at the same time prevent the cables from slipping on the picket.

This fence is very strong, having more than twice the weight of the corresponding height of Field Fence. It fits uneven ground and will follow an incline as well as a level surface.

The style most frequently used is the 37-inch standard mesh.

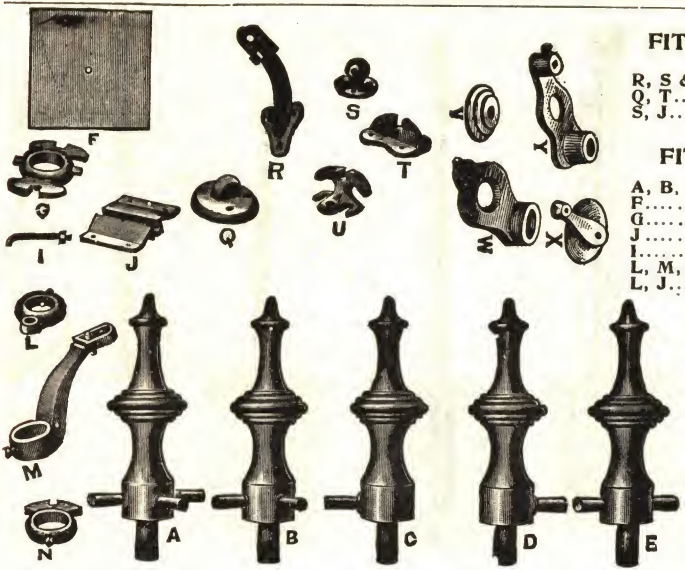
UNION LAWN FENCE ERECTED ON WOOD POSTS WITH TOP RAIL.



The Union Lawn Fence is often erected on wood posts with wood top rail and ornaments as shown in cut. The top rail serves as a brace for the posts, preventing them from drawing together, and consequently the fence from sagging.

The top rail may be dispensed with if the gate and end posts are rigidly braced.

An excellent method of bracing Lawn Fencing as well as Field Fencing is illustrated on Page 13.



FITTINGS FOR WOOD POSTS.

		LIST PRICES
R, S & U	per set,	$0.75
Q, T	"	.75
S, J	"	.75

FITTINGS FOR IRON POSTS.

A, B, C, D & E	each,	$0.75
F	"	.40
G	"	.30
J	"	.30
I	"	.10
L, M, N	per set,	.75
L, J	"	.75

FITTINGS FOR IRON POSTS, STONE WALL OR WOOD BASE.

V, Y	per set,	$0.75
W, X	"	.90

In ordering any of these as extras, always **give letter** under the piece wanted.

WOOD POST ORNAMENT--LIST PRICE, 75c.

FIG. No. 9.

FIG. No. 12.

FIG. No. 13.

FIG. No. 14.

FIG. No. 15.

FIG. No. 16.

STEEL POSTS AND RAIL.

	LIST PRICES—SUBJECT TO DISCOUNT.			CODE WORDS.
	5 ft.	5½ ft.	6 ft.	6½ ft.
Fig. 9 shows Steel Gate and Corner Post, 2 inches outside diameter, with all fixtures	$2.30 Rifabais	$2.40 Rifabbrica	$2.50 Rifador	$2.60 Rifadoras
Fig. 12 shows Steel Hitching Post, 2½ inches outside diameter, 6 feet long, with three anchors and chain	$3.00 each. Riflancano			

	LIST PRICES—SUBJECT TO DISCOUNT.				CODE WORDS.
	For Lawn Fence, 24 in. high	30 in. high	37 in. high	42 in. high	50 in. high
Fig. 13 shows Steel Gate and Corner Post, 2 inches outside diameter, with cast iron base	$2.90 Rifiorissi	$2.90 Riferrammo	$3.00 Rifervendo	$3.10 Rifervessi	$3.20 Riferviamo
Fig. 14 shows Steel Pipe Line Post, with cast iron base.	$1.40 Rifiorito	$1.40 Riffelkamm	$1.45 Riffeln	$1.50 Riffeltest	$1.55 Riffraff
Fig. 15 shows Steel Gate and Corner Post for Stone Wall, 2 inches outside diameter	$2.30 Riflancava	$2.30 Riflatammo	$2.40 Riflatando	$2.50 Riflatassi	$2.60 Riflatato
Fig. 16 shows Steel Pipe Line Post for Stone Wall	$0.90 Riflatava	$0.90 Rificchi	$0.95 Riflatore	$1.00 Riflorendo	$1.05 Riflorisco

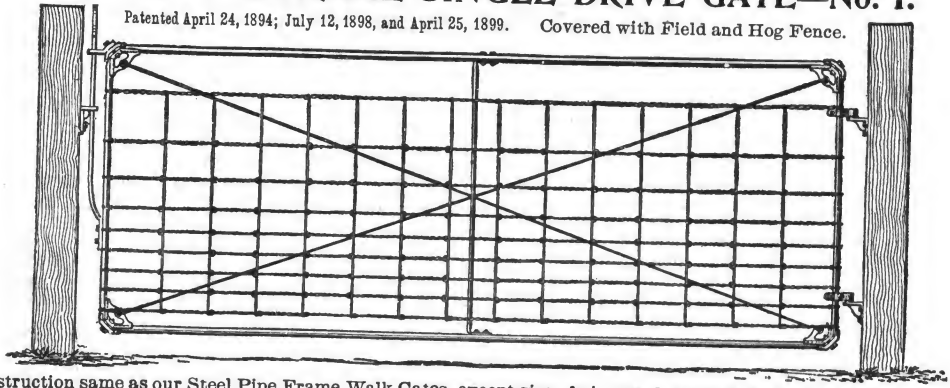
Steel Top Rail, 1¼ inches outside diameter, drilled and fitted, 14 cents per foot; code word, Riflancare.

All Gate, Corner, Line and Field Posts are **driven** to the required depth. This makes them much firmer than when holes are dug, and saves a great deal of labor.

Both posts and anchors are so constructed that they are not raised by frosts. In setting the Hitching Posts, it is necessary to dig the hole, as we use a bell-shaped anchor on the bottom of the post to prevent its being pulled out, and two anchors placed at right angles close to the surface of the ground, which gives it a lateral resistance equal to a 6-inch post.

STEEL PIPE FRAME SINGLE DRIVE GATE—No. 1.

Patented April 24, 1894; July 12, 1898, and April 25, 1899. Covered with Field and Hog Fence.



Construction same as our Steel Pipe Frame Walk Gates, except size of pipe used, which is 1¼ inches instead of 1 inch outside diameter, and $\frac{5}{16}$ round steel brace rods. **An excellent gate for farm purposes.**

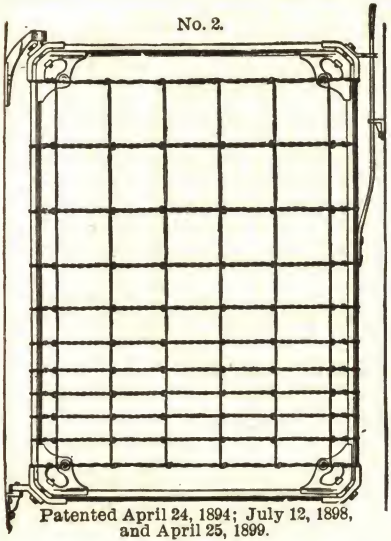
LIST PRICES—SUBJECT TO DISCOUNT.

	Height, 39 in.		47 in.		55 in.		63 in.	CODE WORDS.
Single Drive Gates, 10 feet wide	$12.25	Rijgkous	$12.75	Rijgpen	$13.25	Rijkaard	$13.75	Rijknecht
" " " 12 "	12.75	Rijgkousen	13.25	Rijgsnoer	13.75	Rijkdom	14.25	Rijkoets
" " " 14 "	13.25	Rijgnaald	13.75	Rijgveters	14.25	Rijkdommen	14.75	Rijkoetsen

Add $2.50 to make list price of double gates. For special widths of Single Gates add $1.00 per foot; Double Gates $2.00 per foot. For Single Drive Gates, set posts 5 inches wider apart than gate to be used; for Double Gates, 8 inches wider.

IN ORDERING, GIVE NUMBER, WIDTH AND HEIGHT, OR CODE WORD.

No. 2.



Patented April 24, 1894; July 12, 1898, and April 25, 1899.

STEEL PIPE FRAME WALK GATE.

COVERED WITH UNION LOCK FIELD AND HOG FENCE.

THESE gates are made of pipe, the outside diameter of which is 1 inch, and the corners and hinges are malleable, same as the drive gates. These gates will give excellent satisfaction and will not cost as much money as an ordinary gate made entirely out of wood. The prices, as quoted below, include hinges and latch, and everything complete, except screws to attach hinges to post.

LIST PRICES—SUBJECT TO DISCOUNT. CODE WORDS.

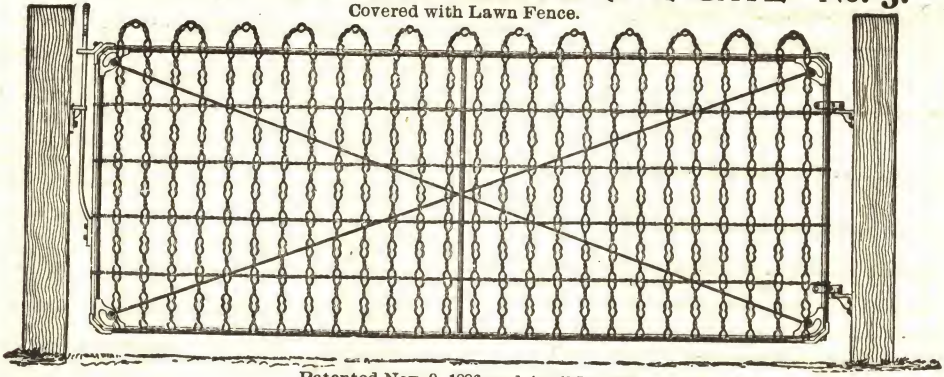
	Height, 39 in.	47 in.	55 in.	63 in.
3 feet wide.....	$5.50 Rilegarono	$5.75 Rilegata	$6.00 Rilegatura	$6.25 Rilegavamo
3½ "	$5.75 Rilegavate	$6.00 Rileggendo	$6.25 Rileggerla	$6.50 Rileggessi
4 "	$6.00 Rileggiamo	$6.25 Rileggono	$6.50 Rileghero	$6.75 Rilegolli
4½ "	$6.25 Rilessarlo	$6.50 Rilessollo	$6.75 Riletamano	$7.00 Riletamare
5 "	$6.50 Riletamava	$6.75 Riletamo	$7.00 Rilhador	$7.25 Rilhadura

For odd widths add $1.00 to the nearest regular width.

IN ORDERING GIVE NUMBER, WIDTH AND HEIGHT, OR CODE WORD.

STEEL PIPE FRAME SINGLE DRIVE GATE—No. 3.

Covered with Lawn Fence.



Patented Nov. 9, 1886, and April 24, 1894.

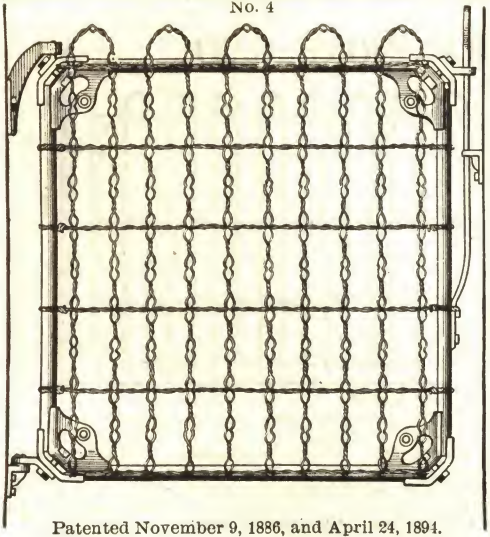
LIST PRICES—SUBJECT TO DISCOUNT.

	Height, 30 in.		37 in.		43 in.		50 in.	CODE WORDS.
9 feet wide	$13.00	Rimabat	$13.50	Rimables	$14.00	Rimabundos	$14.50	Rimabundum
10 "	13.25	Rimacinano	13.75	Rimacinare	14.25	Rimacinava	14.75	Rimacino
12 "	13.75	Rimaillant	14.25	Rimaledire	14.75	Rimamus	15.25	Rimandando

Construction same as our Steel Pipe Frame Walk Gates, except size of pipe used, which is 1¼ inches instead of 1 inch outside diameter and $\frac{5}{16}$ round steel brace rods. For special widths add $1.00 per foot.

IN ORDERING GIVE NUMBER, WIDTH AND HEIGHT, OR CODE WORD.

No. 4



Patented November 9, 1886, and April 24, 1894.

STEEL PIPE FRAME WALK GATE.

Covered with Lawn Fence.

LIST PRICES—SUBJECT TO DISCOUNT. CODE WORDS.

	Height, 30 in.	37 in.	43 in.	50 in.
3 feet wide	$5.75	$5.75	$6.00	$6.25
	Rinacciare	Rinacciava	Rinaldesca	Rinalgia
3½ "	$6.00	$6.00	$6.25	$6.50
	Rinantera	Rinanto	Rinaria	Rinarrando
4 "	$6.25	$6.25	$6.50	$6.75
	Rinarrato	Rinarrava	Rinarrerai	Rinarro
4½ "	$6.50	$6.50	$6.75	$7.00
	Rincage	Rincagnano	Rincagnare	Rincagnava
5 "	$6 75	$6.75	$7.00	$7.25
	Rincais	Rincanata	Rincantato	Rincappano

For special widths add $1.00 to nearest regular width.

This Gate is the same as the No. 2, with the exception of the covering.

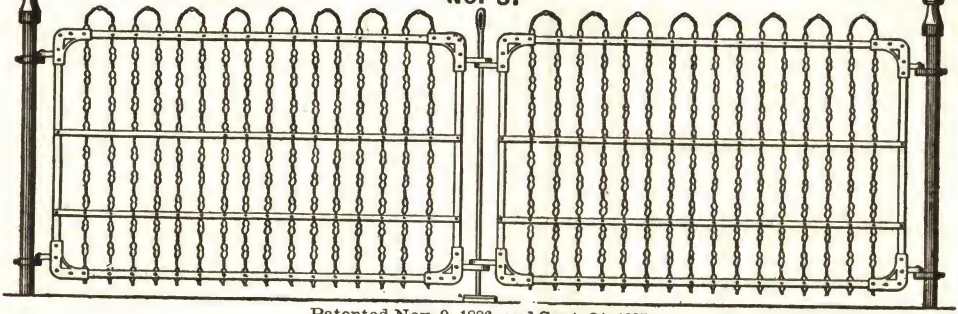
Corners of all Gates are malleable; all other parts are steel.

All our Walk Gates are self-closing.

For Walk Gates space between posts must be 5 inches wider than the Gates to be used. In ordering be particular to give the width and height of gate wanted or code word.

STEEL FRAME DOUBLE DRIVE GATE,

No. 5.



Patented Nov. 9, 1886, and Sept. 24, 1895.

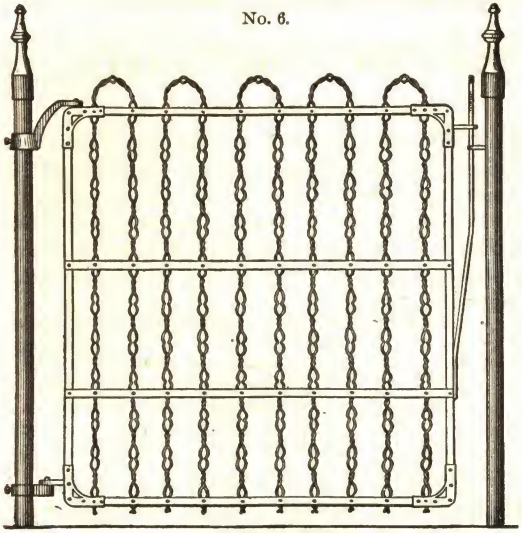
LIST PRICES—SUBJECT TO DISCOUNT.

	Height, 30 in.		37 in.		43 in.		50 in.	CODE WORDS.
9 feet wide	$14.00	Rioccupano	$14.50	Rioccupare	$16.00	Rioccupava	$18.00	Rioccupo

These gates are made the same as the steel frame walk gates, only having heavier steel bars and heavier malleable corners. These gates are not self-closing, but are alike on both sides, opening and closing both ways. Double drive gates take a space eight inches wider between the posts than the gate to be used. For special widths add $2.00 per foot.

IN ORDERING GIVE NUMBER, WIDTH AND HEIGHT, OR CODE WORD.

No. 6.



Patented November 9, 1886, and September 24, 1895.

STEEL FRAME WALK GATE.

THIS cut shows our walk gates in combination with steel posts. The frames of these gates are made of flat steel bars with malleable corners and hinges; they are very neat, strong and serviceable, alike on both sides, open both ways and are self-closing; are covered with the best rust-proof coating to be found.

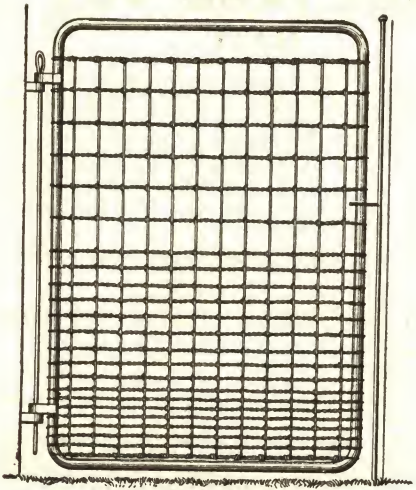
LIST PRICES—SUBJECT TO DISCOUNT. CODE WORDS.

Feet Wide.	Height, 30 in.	37 in.	42 in.	50 in.
3.....	$6.00	$6.00	$6.25	$6.50
	Ripaggio	Ripaille	Ripailleur	Ripalpammo
3½.....	$6.25	$6.25	$6.50	$6.75
	Ripalparla	Ripalpassi	Ripalpato	Ripalpo
4.....	$6.50	$6.50	$6.75	$7.00
	Ripancar	Ripanco	Riparatore	Riparatura

For special widths add $1.00 per foot to nearest regular width.

All walk gates require a space five inches wider between the posts than the width of the gate to be used, to allow for the hinges and latch. The price includes hinges and everything complete, except the posts and screws to attach hinges on wood posts.

No. 8.



Patented July 12, 1898, and April 25, 1899.

POULTRY YARD GATES.

THE frame of these gates is made of one piece of steel pipe having an outside diameter of ¾ inch, and is covered with our Extra Heavy or No. 17 Poultry Fence. The hinges and latch are malleable iron. This gate requires a space 4 inches wider between posts than the gate to be used to allow for hinges and latch.

LIST PRICES—SUBJECT TO DISCOUNT. CODE WORDS.

	Width—36 inches.		48 inches.	
36 inches high	$4.50	Risban	$4.75	Risberme
48 " "	4.75	Risbircia	5.00	Riscada
60 " "	5.00	Riscador	5.25	Riscaglia
72 " "	5.25	Riscaldano	5.50	Riscaldava
84 " "	5.50	Riscaldo	5.75	Riscamento

For odd widths add $1.00 to the nearest regular width.

IN ORDERING GIVE NUMBER, WIDTH AND HEIGHT, OR CODE WORD.

DIRECTIONS FOR ERECTING UNION LAWN FENCE.

1st. *Drive Corner and End Posts*, then mark off the ground between them so as to get the other posts in line.

2d. *Drive the Gate Posts*. In placing the posts for single gates leave space 5 inches wider than gate to allow for hinges and latch; for double gate leave 8 inches extra space. Be careful to attach hinges and latch to posts before fastening the fence to them.

3d. *Drive Line Posts*, placing them 8 to 10 feet apart, with holes crossing line of fence. Always drive posts perpendicular and to proper depth so the fence will clear the ground by about two inches; be careful to get posts in line. Remove ornaments and top loops from posts while being driven.

4th. *The Top Rail* is to be screwed together until it is long enough to extend from one ornamental post to another: cut it off if necessary to make an exact fit, attach it to line posts by passing through the loops and the ends fit over the arms on ornaments. Now hang the gates.

5th. *Stretch the Fence* on framework thus formed as follows, using an ordinary wire stretcher: fasten all the cables to the farthest end post with hook bolts, being careful to get picket nearest the post perpendicular with it; carry the fence to the next corner post, stretch the middle cable first, then alternately those above and below, until all are stretched and fastened tightly to post with hook bolts, being careful while doing this to keep the pickets perpendicular, then go to next corner or end post and fasten in same way, cutting off cables neatly at the ends. Fasten top cable to rail by passing wire nails through the holes, hooking them over the cable and hammering down. Attach cables to line posts by wires twisted through the holes and fence is complete.

If wood posts are used great care must be taken in bracing those at ends and corners to prevent their drawing over which would allow the fencing to sag between posts. The method of bracing illustrated on page 13 will give excellent results with the Union Lawn Fence.

Trade Mark

AMERICA'S FAVORITE

UNION BARB WIRE.

Trade Mark

Runs 148 rods to the hundred pounds or 216 pounds to the mile. While the strands of Union are made of No. 14 wire, it has about the same breaking strength as the old style barbed wire, owing to the superior quality of the material used in its construction.

Put up in 80 and 160 rod spools. Every spool bears the Union trade mark.
Made in hog or thick set only, galvanized or painted.
Union Barb Wire will stand a breaking strain of 1000 pounds.
Much cheaper by the rod than Old Style barb wire.
The freight per rod is ⅓ less than Old Style barb wire.

BARB WIRE

National

BARB WIRE

GLIDDEN BARBS.
TWO POINT.

NATIONAL Barb Wire will stand a strain of more than 1300 lbs., making it strong, durable and thoroughly effective. It saves money both in freight and price per rod.

Made in Regular or Cattle and Thick Set or Hog. Galvanized or painted. This wire is put up in spools measuring 80 and 120 rods.

AVERAGE SHIPPING WEIGHTS OF FENCING.

UNION LOCK POULTRY.

20 Rod Rolls.

Nos. 19 AND 20.

Height.	Weight.
12 inches.	30 pounds.
18 "	42 "
24 "	56 "
36 "	69 "
48 "	83 "
60 "	96 "
72 "	108 "
84 "	123 "

No. 17.

24 inches.	108 pounds.
36 "	133 "
48 "	162 "
60 "	184 "
72 "	208 "
84 "	234 "

UNION LOCK FIELD AND HOG.

20 Rod Rolls.

Height.	Weight.
18 inches.	95 pounds.
24 "	113 "
31 "	130 "
39 "	154 "
47 "	177 "
55 "	195 "
63 "	210 "

MODEL.

24 inches.	100 pounds.
32 "	120 "

LAWN FENCE.

300 Foot Rolls.

STANDARD MESH.

Height.	Weight.
24 inches.	157 pounds.
30 "	198 "
37 "	250 "
42 "	300 "
50 "	350 "

CLOSE MESH.

24 inches.	220 pounds.
30 "	280 "
37 "	350 "
42 "	420 "
50 "	490 "

NATIONAL STEEL & WIRE COMPANY

New York
De Kalb
San Francisco

Owning and Operating

Union Fence Company
De Kalb, Ill.

De Kalb Fence Company
De Kalb, Ill.

Pacific Steel & Wire Company
San Francisco, Cal.

Kansas Steel & Wire Works
Kansas City, Mo.

National Wire Corporation
New Haven, Conn.

National Steel Foundry Company
New Haven, Conn.

Safety Insulated Wire & Cable Co.
Bayonne, N. J.

NATIONAL STEEL & WIRE COMPANY

New York

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UNION LINE

UNION LOCK FIELD AND HOG FENCE
UNION LOCK POULTRY FENCE
UNION LAWN FENCE
UNION BARB WIRE

Adapted to all Purposes.

J. S. WOODHOUSE,

SELLING AGENT.

191 - 195 Water St. New York.

UNION

Trade Mark